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Date:

December 14, 2005

Total Pages: 12 (including cover)

Subject:

Application 10,672,416

Att: Commissioner for Patents

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TRANSMITTAL				10/8/2,416					
			Filing Date First Named Inventor	09/26/2003		RECEIVED CENTRAL FAX CENTRAL			
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			Art Unit	1753					
(to be used for all correspondence after initial filing)				Examiner Name	VAN, Luar	VAN, Luan V.			
Total Number of Pages in This Submission 11				Attorney Docket Number	03RSC004	03RSC004			
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Tench and White

Examiner: VAN, Luan V.

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Serial No.

10/672,416

Art Unit: 1753

DEC 1 4 2005

Filing Date:

09/26/2003

Docket No. 03RSC004

Title:

Improved Copper Bath for Electroplating Fine Circuitry on Semiconductor Chips

Subject:

Non-Final Office Action of 14 September 2005

Addressee:

COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

10 December 2005

Six:

In response to the subject Office Action dated 14 September 2005, please accept the following Remarks and Conclusions. In consideration of the arguments presented, reconsideration of this application and allowance of all of the claims, as amended, are respectfully requested.

REMARKS

Claim Rejections - 35 USC §102

Claims 1-5, 8, 10-13, 16, and 18-20 were rejected under 35 U.S.C. 102(b) as being anticipated by Wells et al. (U.S. Patent 3,161,575). The inventors acknowledge that the principal differences between the copper pyrophosphate bath of Wells and that of the present invention are the intended use of the bath and the concentration of the 2,5-dimercapto-1,3,4-thiadiazole (DMTD) organic additive. Wells does not specify a use for the plating bath, and specifies (Claims 1 and 2) a general concentration range of 0.5 ppm (which corresponds to 4 μ M) to saturation for a list of five organic additives. The list includes DMTD but no specific